

OIL ANALYSIS REPORT



Machine Id

8380153 (S/N 1596) Component Compressor

Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

🔺 Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

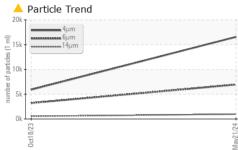
Fluid Condition

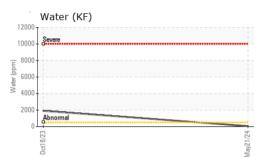
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016766	KCPA007623	
Sample Date		Client Info		21 May 2024	18 Oct 2023	
Machine Age	hrs	Client Info		7360	6371	
Oil Age	hrs	Client Info		3000	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm		>10	0	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m		<u> </u>	▲ 102	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	1	6	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	100	1	<1	
Calcium	ppm	ASTM D5185m	0	0	0	
Phosphorus	ppm	ASTM D5185m	0	2	7	
Zinc	ppm	ASTM D5185m	0	82	73	
Sulfur	ppm	ASTM D5185m	23500	17790	15408	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	4	
Sodium	ppm	ASTM D5185m		1	2	
Potassium	ppm	ASTM D5185m	>20	0	1	
Water	%	ASTM D6304	>0.05	0.005	0 .191	
ppm Water	ppm	ASTM D6304	>500	54	1 910	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		16569	5916	
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 3223	
Particles >14µm		ASTM D7647	>80	4 972	5 48	
Particles >21µm		ASTM D7647	>20	<u> </u>	1 85	
Particles >38µm		ASTM D7647	>4	<u> </u>	<u> </u>	
Particles >71µm		ASTM D7647	>3	1	A 3	
Oil Cleanliness		ISO 4406 (c)	>/17/13	1/20/17	▲ 20/19/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.39	

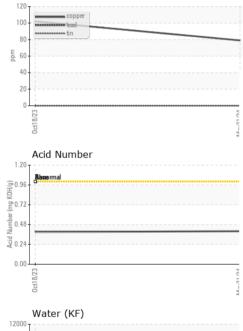


Built for a lifetime









White Metal Yellow Metal

VISUAL

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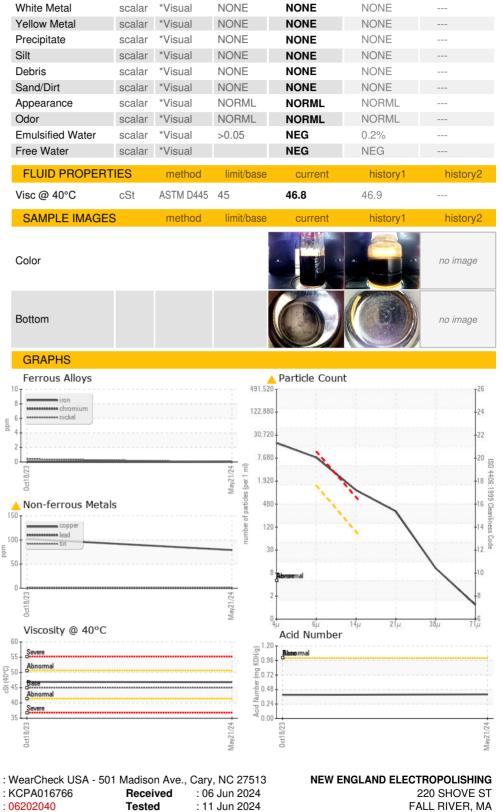
method

limit/base

current

history1

history2



Abnorma

1000

800 r (ppm)

4000

2000

Water

US 02724 Contact: RICH rich@neelectropolishing.com T: F:

Report Id: NEWFAL [WUSCAR] 06202040 (Generated: 06/11/2024 12:40:35) Rev: 1

Laboratory

Sample No.

Contact/Location: RICH ? - NEWFAL

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